

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior listings and versions of claims in this application.
Please cancel claims 1, 11, 19 and 21-22 without prejudice or disclaimer.

1. (Canceled)

2. (Canceled)

3. (Currently Amended) The chemical conversion coating agent according to Claim 234,

wherein the water-soluble resin has a molecular weight of 500 to 500000, and a content of the water-soluble resin in the chemical conversion coating agent is 5 to 5000 ppm.

4. (Currently Amended) The chemical conversion coating agent according to Claim 234, containing

1 to 5000 ppm of at least one kind of a chemical conversion reaction accelerator selected from the group consisting of nitrite ion, nitro group-containing compounds, hydroxylamine sulfate, persulfate ion, sulfite ion, hyposulfite ion, peroxides, iron (III) ion, citric acid iron compounds, bromate ion, perchlorinate ion, chlorate ion, chlorite ion, as well as ascorbic acid, citric acid, tartaric acid, malonic acid, succinic acid and salts thereof.

5. (Currently Amended) The chemical conversion coating agent according to Claim 234,

wherein the at least one kind selected from the group consisting of zirconium, titanium and hafnium has a content of 20 to 10000 ppm in terms of metal, and the chemical conversion coating agent has a pH of 1.5 to 6.5.

6. (Withdrawn-Currently Amended) A surface-treated metal comprising a chemical conversion coat formed by the chemical conversion coating agent according to Claim 234.

7. (Withdrawn) The surface-treated metal according to Claim 6, wherein the chemical conversion coat has a coat amount of 0.1 to 500 mg/m² in a total amount of metals contained in the chemical conversion coating agent.

8. (Canceled)

9. (Canceled)

10. (Previously presented) The chemical conversion coating agent according to Claim 3, containing

1 to 5000 ppm of at least one kind of a chemical conversion reaction accelerator selected from the group consisting of nitrite ion, nitro group-containing compounds, hydroxylamine sulfate, persulfate ion, sulfite ion, hyposulfite ion, peroxides, iron (III) ion, citric acid iron compounds, bromate ion, perchlorinate ion, chlorate ion, chlorite ion, as well as ascorbic acid, citric acid, tartaric acid, malonic acid, succinic acid and salts thereof.

11. (Canceled)

12. (Canceled)

13. (Previously presented) The chemical conversion coating agent according to Claim 3,

wherein the at least one kind selected from the group consisting of zirconium, titanium and hafnium has a content of 20 to 10000 ppm in terms of metal, and the chemical conversion coating agent has a pH of 1.5 to 6.5.

14. (Previously presented) The chemical conversion coating agent according to Claim 4,

wherein the at least one kind selected from the group consisting of zirconium, titanium and hafnium has a content of 20 to 10000 ppm in terms of metal, and the chemical conversion coating agent has a pH of 1.5 to 6.5.

15. (Canceled)

16. (Withdrawn) A surface-treated metal comprising a chemical conversion coat formed by the chemical conversion coating agent according to Claim 3.

17. (Withdrawn) A surface-treated metal comprising a chemical conversion coat formed by the chemical conversion coating agent according to Claim 4.

18. (Withdrawn) A surface-treated metal comprising a chemical conversion coat formed by the chemical conversion coating agent according to Claim 5.

19. (Canceled)

20. (Previously presented) The chemical conversion coating agent according to Claim 10,

wherein the at least one kind selected from the group consisting of zirconium, titanium and hafnium has a content of 20 to 10000 ppm in terms of metal, and the chemical conversion coating agent has a pH of 1.5 to 6.5.

21-22. (Canceled)

23. (Currently Amended) ~~The chemical conversion coating agent according to claim 1.~~ A chemical conversion coating agent comprising:

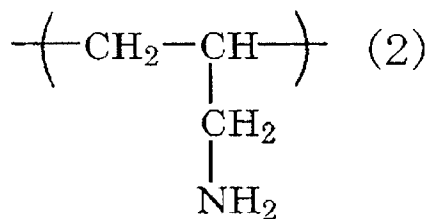
at least one kind selected from the group consisting of zirconium, titanium and hafnium;

fluorine; and

a water-soluble resin ,

wherein said water-soluble resin has a constituent unit expressed by the chemical formula

(2):



and

wherein the water-soluble resin is a polyallylamine resin.